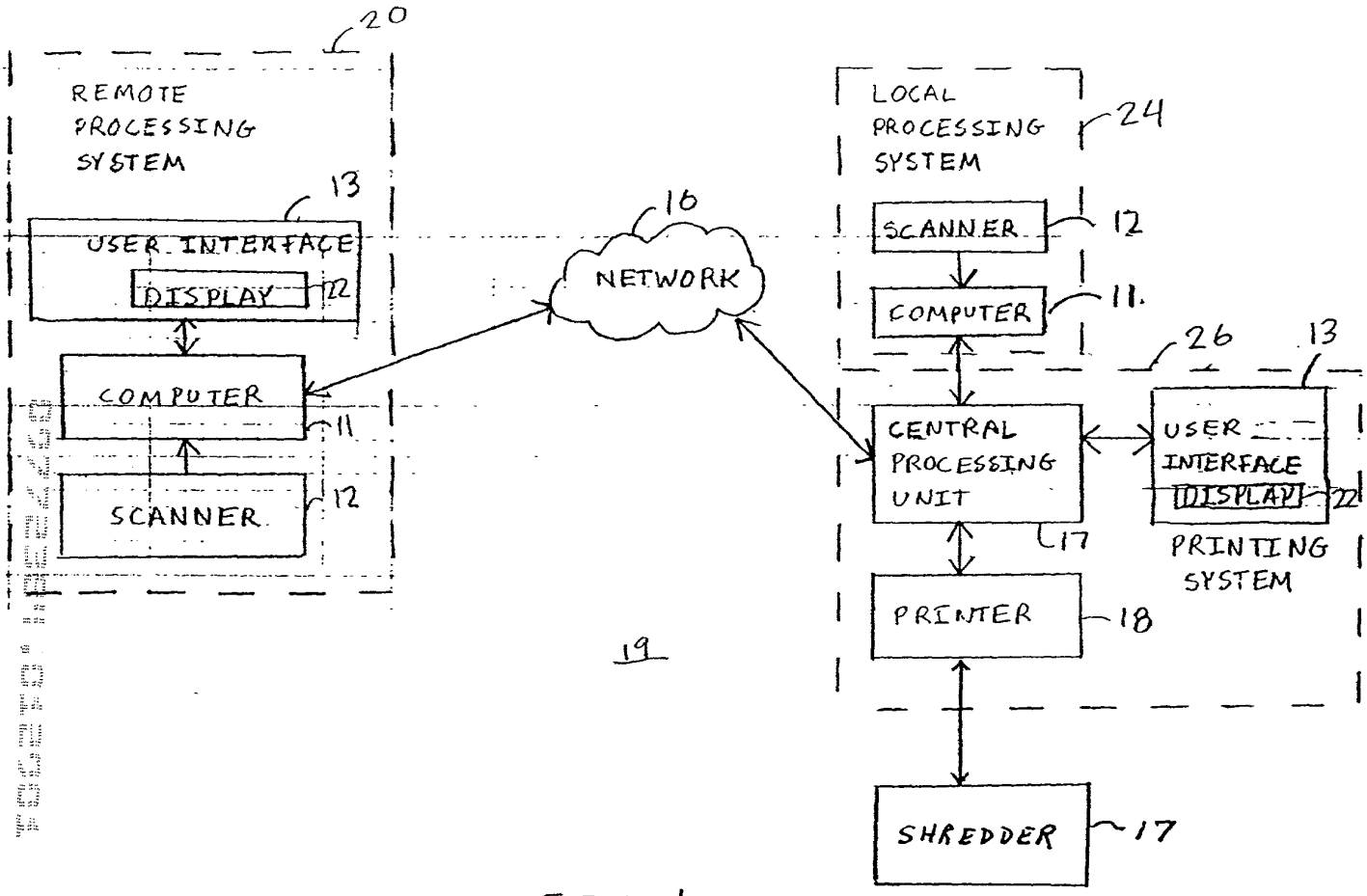

20
REMOTE PROCESSING SYSTEM
13
USER INTERFACE
DISPLAY
22
COMPUTER
11
SCANNER
12
16
NETWORK
LOCAL PROCESSING SYSTEM
24
SCANNER
12
COMPUTER
11
26
13
CENTRAL PROCESSING UNIT
17
USER INTERFACE
DISPLAY
22
PRINTING SYSTEM
PRINTER
18
19
SHREDDER
17

FIG. 1

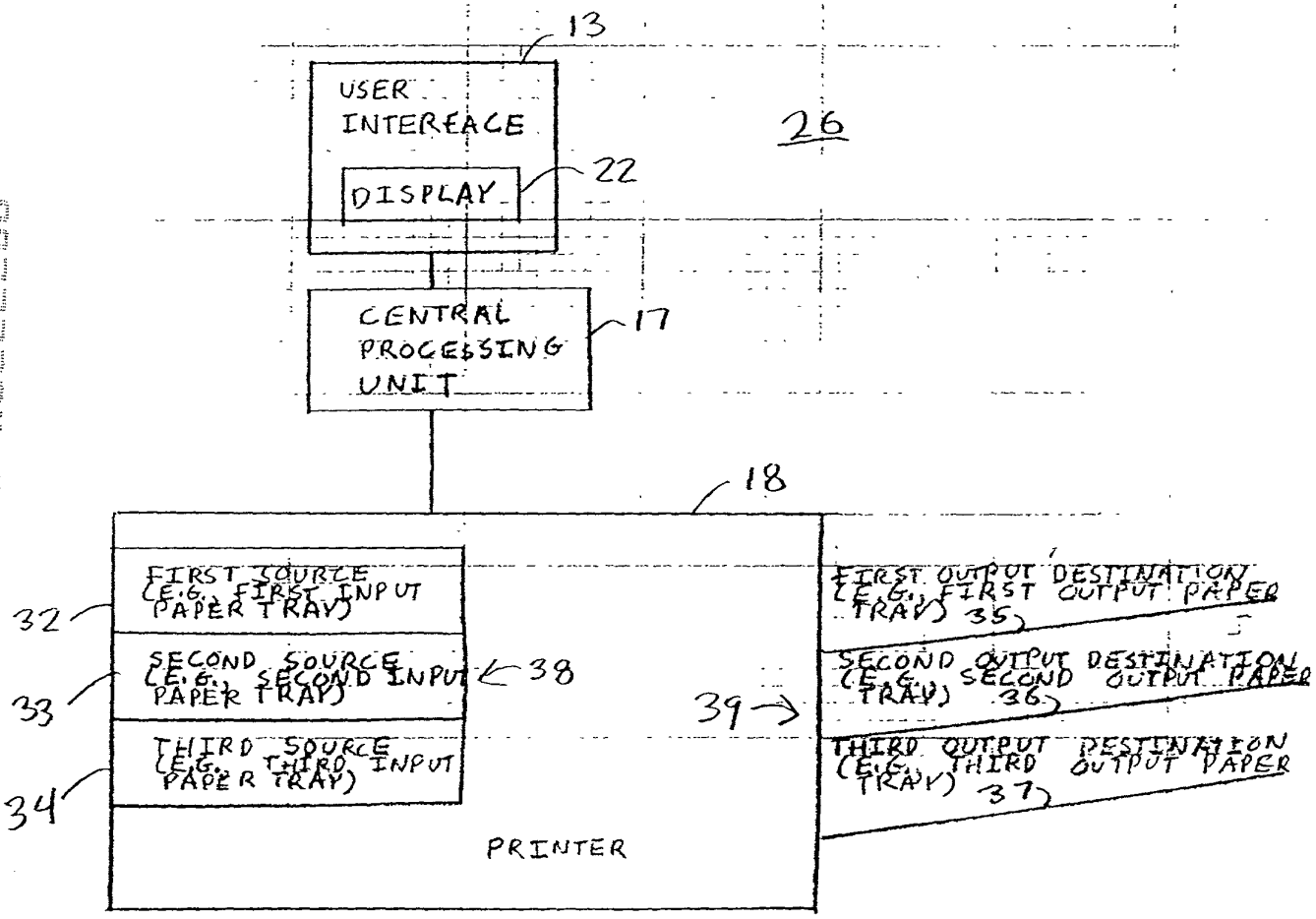

13
USER INTERFACE
26
DISPLAY
22
CENTRAL PROCESSING UNIT
17
18
FIRST SOURCE (E.G. FIRST INPUT PAPER TRAY)
32
SECOND SOURCE (E.G. SECOND INPUT PAPER TRAY)
33
38
THIRD SOURCE (E.G. THIRD INPUT PAPER TRAY)
34
39
FIRST OUTPUT DESTINATION (E.G. FIRST OUTPUT PAPER TRAY) 35
SECOND OUTPUT DESTINATION (E.G. SECOND OUTPUT PAPER TRAY) 36
THIRD OUTPUT DESTINATION (E.G. THIRD OUTPUT PAPER TRAY) 37
PRINTER

FIG. 2

FIG. 3

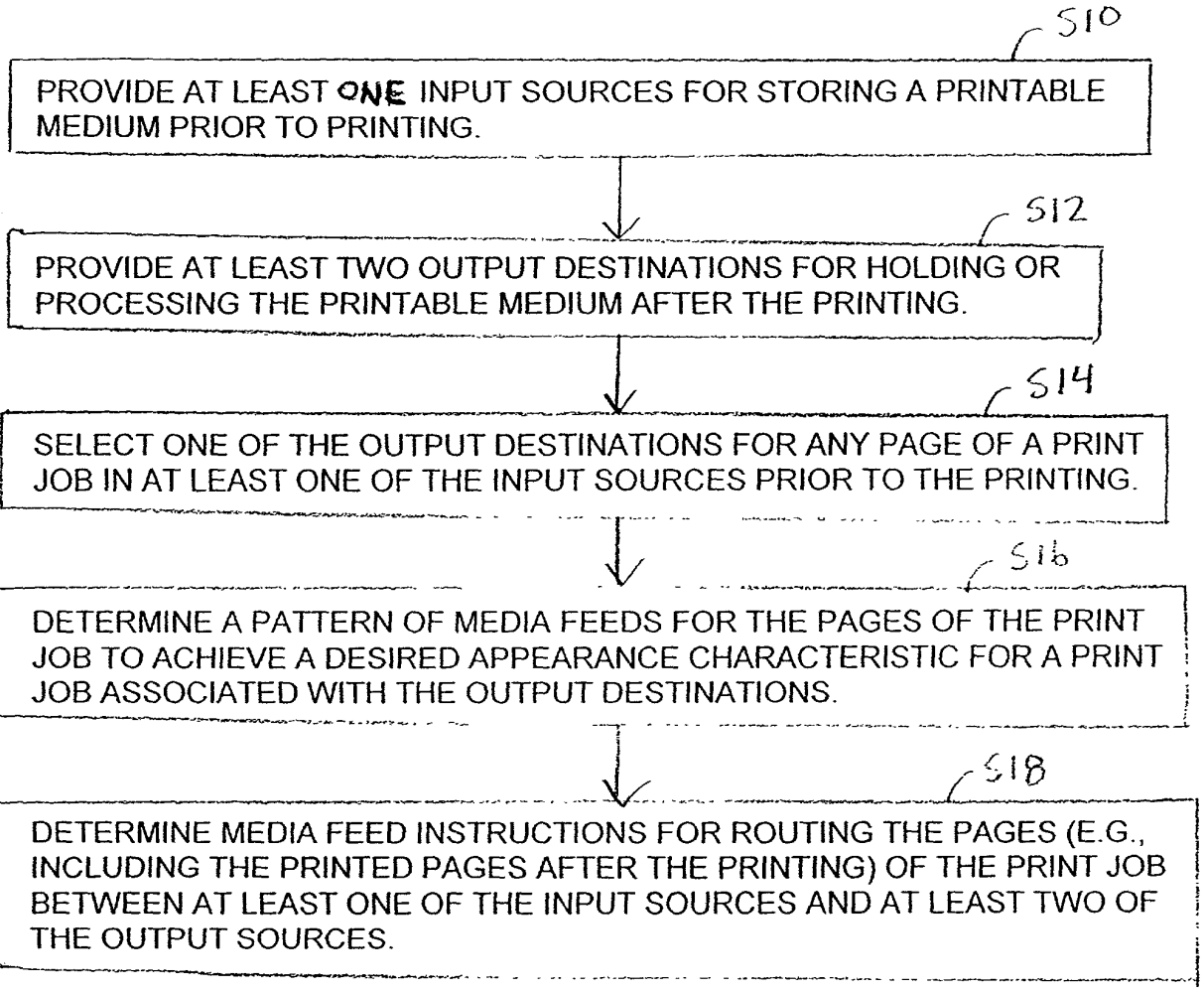
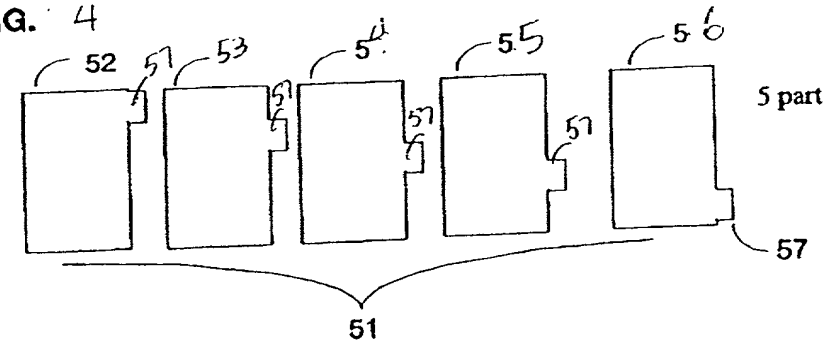
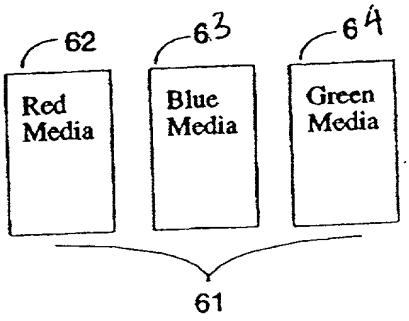

S10
PROVIDE AT LEAST ONE INPUT SOURCES FOR STORING A PRINTABLE MEDIUM PRIOR TO PRINTING.
S12
PROVIDE AT LEAST TWO OUTPUT DESTINATIONS FOR HOLDING OR PROCESSING THE PRINTABLE MEDIUM AFTER THE PRINTING.
S14
SELECT ONE OF THE OUTPUT DESTINATIONS FOR ANY PAGE OF A PRINT JOB IN AT LEAST ONE OF THE INPUT SOURCES PRIOR TO THE PRINTING.
S16
DETERMINE A PATTERN OF MEDIA FEEDS FOR THE PAGES OF THE PRINT JOB TO ACHIEVE A DESIRED APPEARANCE CHARACTERISTIC FOR A PRINT JOB ASSOCIATED WITH THE OUTPUT DESTINATIONS.
S18
DETERMINE MEDIA FEED INSTRUCTIONS FOR ROUTING THE PAGES (E.G., INCLUDING THE PRINTED PAGES AFTER THE PRINTING) OF THE PRINT JOB BETWEEN AT LEAST ONE OF THE INPUT SOURCES AND AT LEAST TWO OF THE OUTPUT SOURCES.

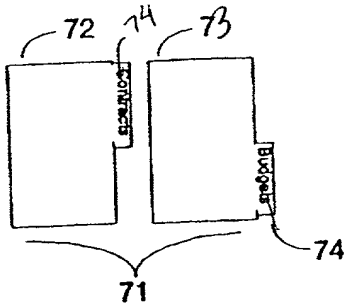
FIG. 4



5 part unprinted tabs



3 part colored media



2 part printed tabs

FIG. 5 A

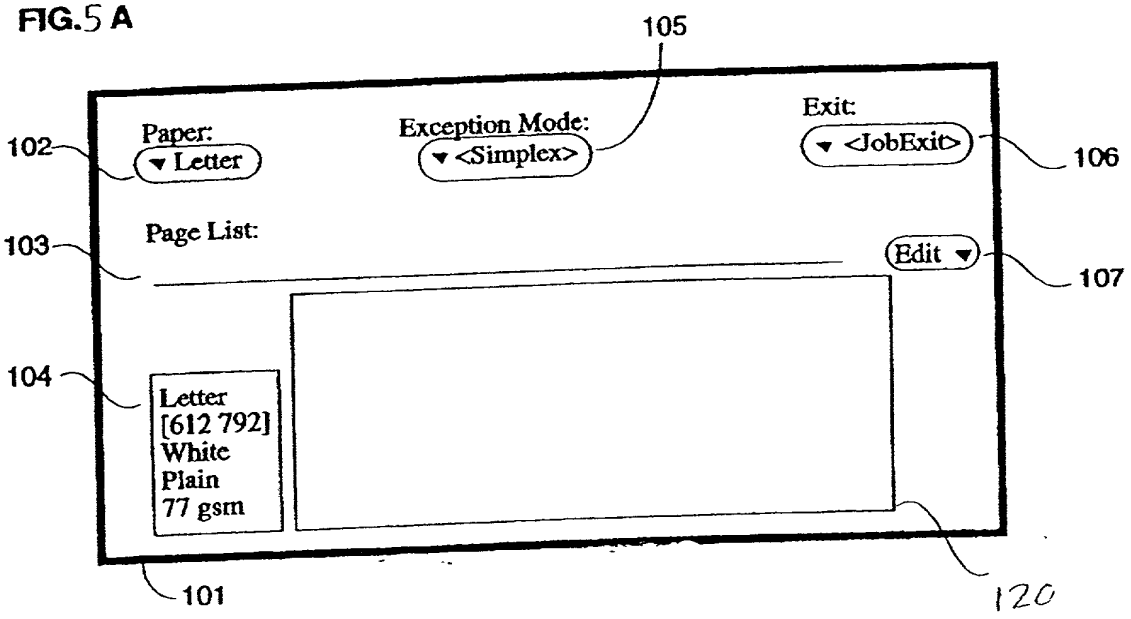

105
Paper:
Letter
Exception Mode:
<Simplex>
Exit:
<JobExit>
102
106
Page List:
103
Edit
107
104
Letter
[612 792]
White
Plain
77 gsm
101
120

FIG. 5 B

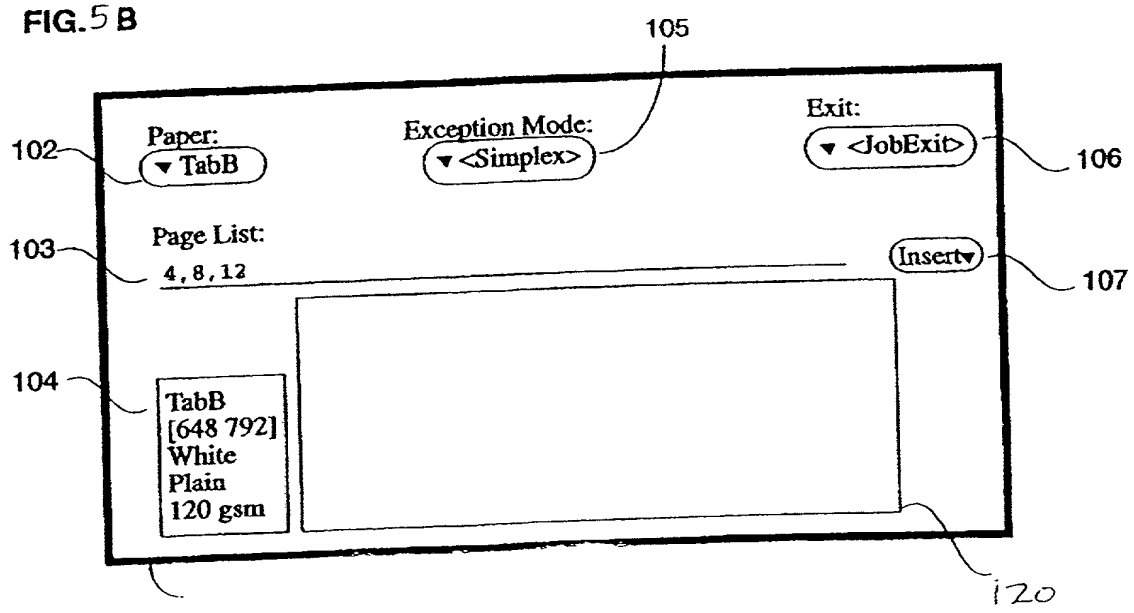

105
Paper:
TabB
Exception Mode:
<Simplex>
Exit:
<JobExit>
102
106
Page List:
4,8,12
103
Insert
107
104
TabB
[648 792]
White
Plain
120 gsm
120

FIG. 5C

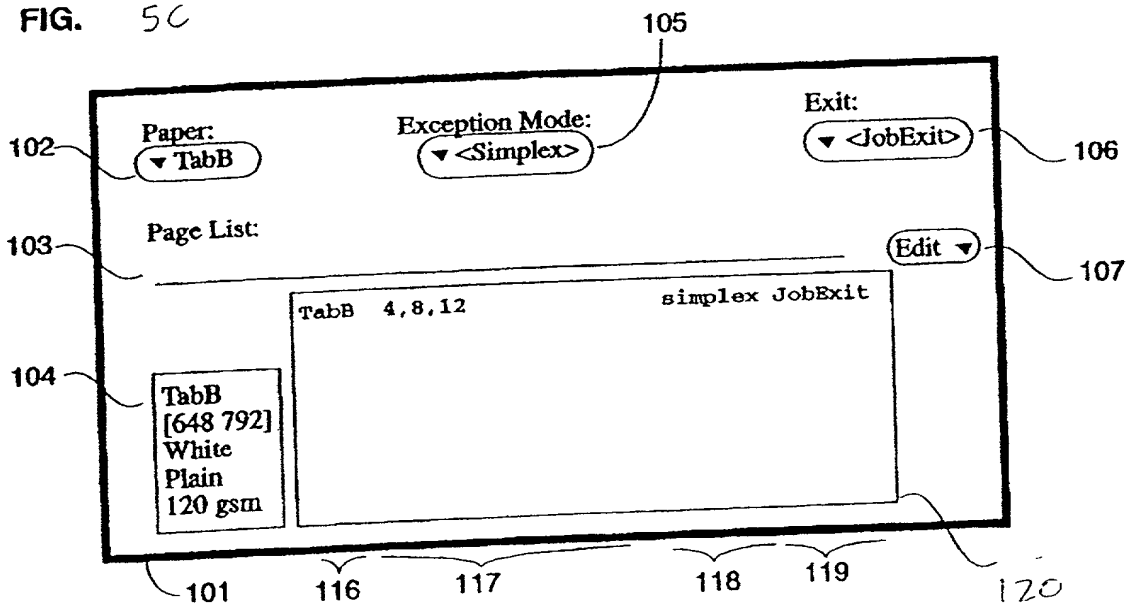

105
Paper:
TabB
Exception Mode:
<Simplex>
Exit:
<JobExit>
102
106
Page List:
103
Edit
107
TabB 4,8,12 simplex JobExit
104
TabB
[648 792]
White
Plain
120 gsm
101
116
117
118
119
120

FIG. 5D

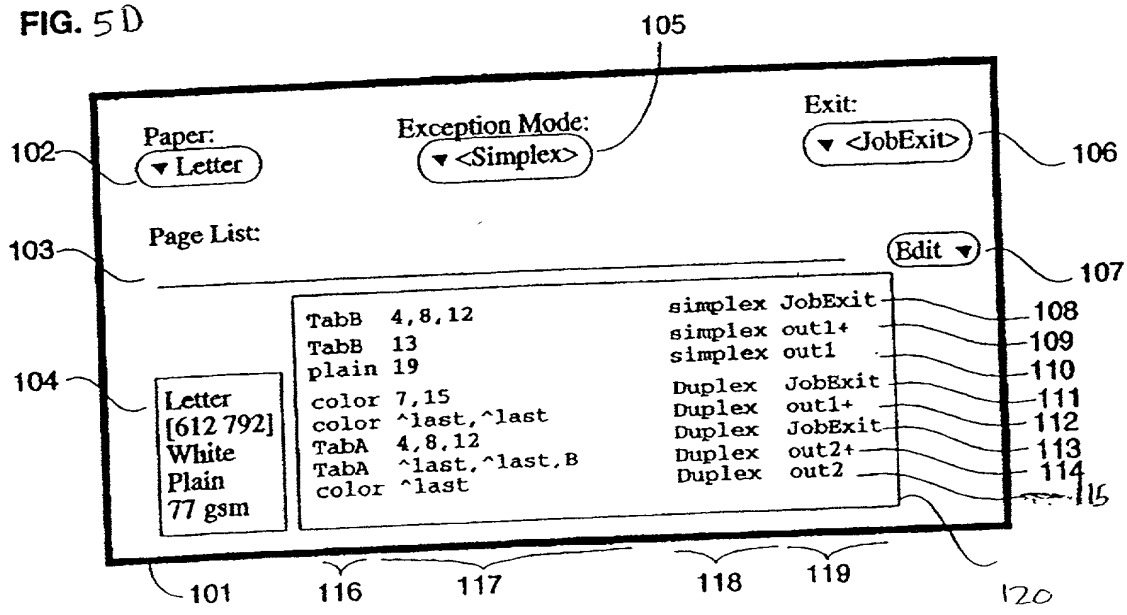
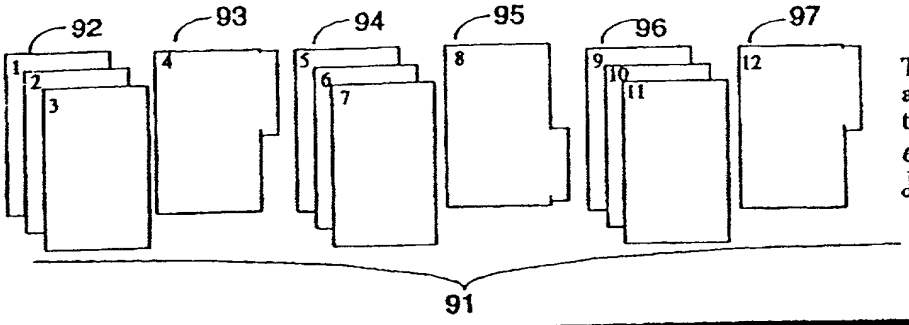

105
Paper:
Letter
Exception Mode:
<Simplex>
Exit:
<JobExit>
102
106
Page List:
103
Edit
107
TabB 4,8,12
TabB 13
plain 19
color 7,15
color ^last,^last
TabA 4,8,12
TabA ^last,^last,B
color ^last
simplex JobExit
simplex out1+
simplex out1
Duplex JobExit
Duplex out1+
Duplex JobExit
Duplex out2+
Duplex out2
108
109
110
111
112
113
114
116
104
Letter
[612 792]
White
Plain
77 gsm
101
116
117
118
119
120

FIG. 6A



These pages are sent to the second output destination.

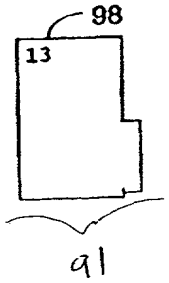


FIG. 6B

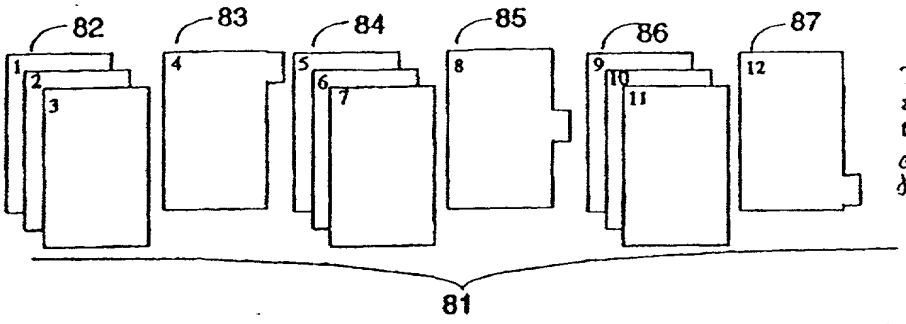
This page is sent to the first output destination

FIG. 6C

Table 1: Example of a MediaExit Pattern

Page Identifier	Printing Indicator	Output Destination
4	True	second Output Dest.
8	True	second Output Dest.
12	True	second Output Dest.
13	True	first output dest.

FIG. 7A



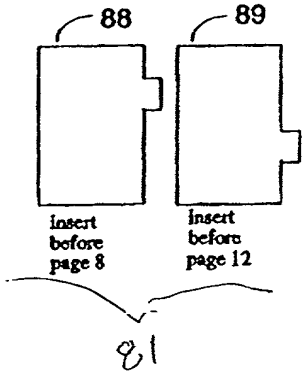


FIG 7B

These pages are sent to the first output destination

FIG. 7C

Table 2: Example of a Balanced MediaExit Pattern

Page Identifier	Printed On?	Output Destination
4	True	second output destination
8	False	first output destination
8	True	second output destination
12	False	first output destination
12	True	second output destination

FIG. 7D

Table 3: Example of an Unbalanced MediaExit Pattern

Page	Printed On?	Output Destination
4	True	<JobExit>
8	True	<JobExit>
12	True	<JobExit>
last	False	Output Destination1
last	False	Output Destination1

FIG. 8

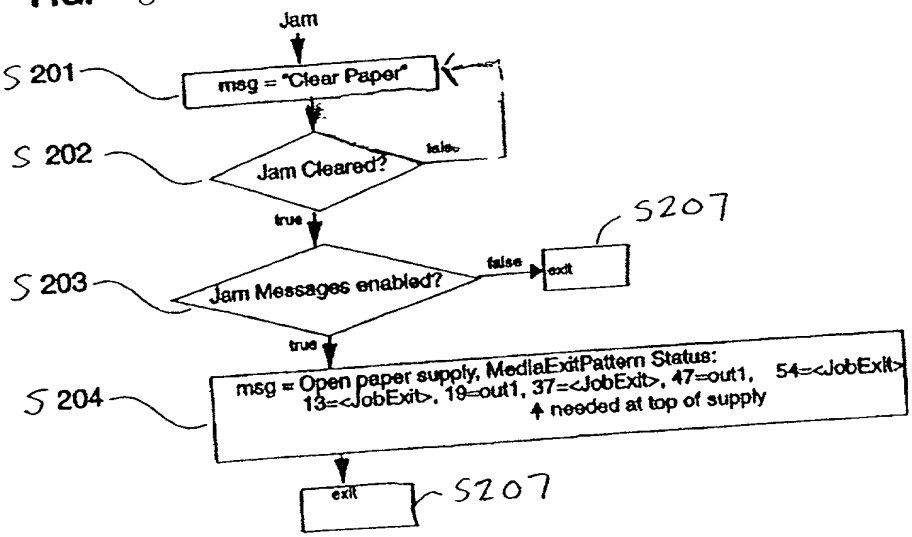

Jam
S 201
msg = "Clear Paper"
S 202
Jam Cleared?
false
true
S207
S 203
Jam Messages enabled?
false
exit
true
S 204
msg = Open paper supply, MediaExitPattern Status:
13=<JobExit>, 19=out1, 37=<JobExit>, 47=out1, 54=<JobExit>
4 needed at top of supply
exit
S207

FIG. 9

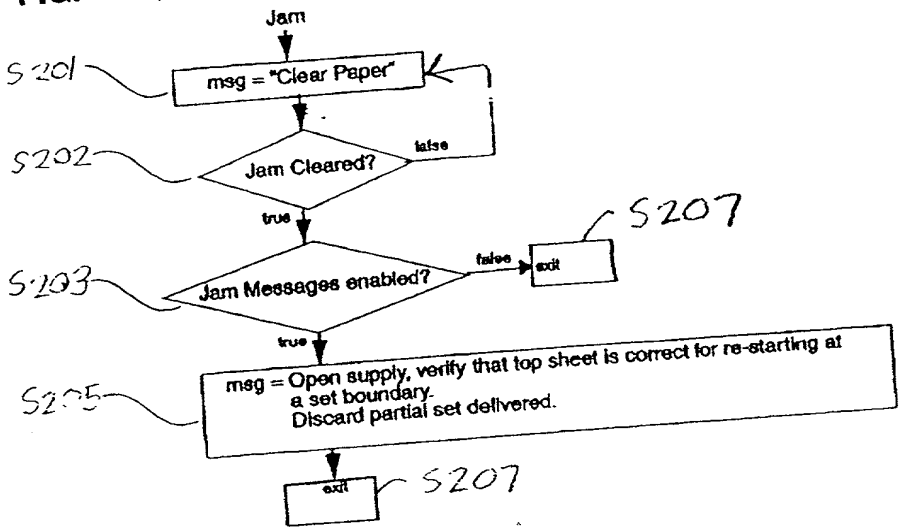

Jam
S 201
msg = "Clear Paper"
S202
Jam Cleared?
false
true
S207
S 203
Jam Messages enabled?
false
exit
true
S205
msg = Open supply, verify that top sheet is correct for re-starting at a set boundary.
Discard partial set delivered.
exit
S207

FIG. 10

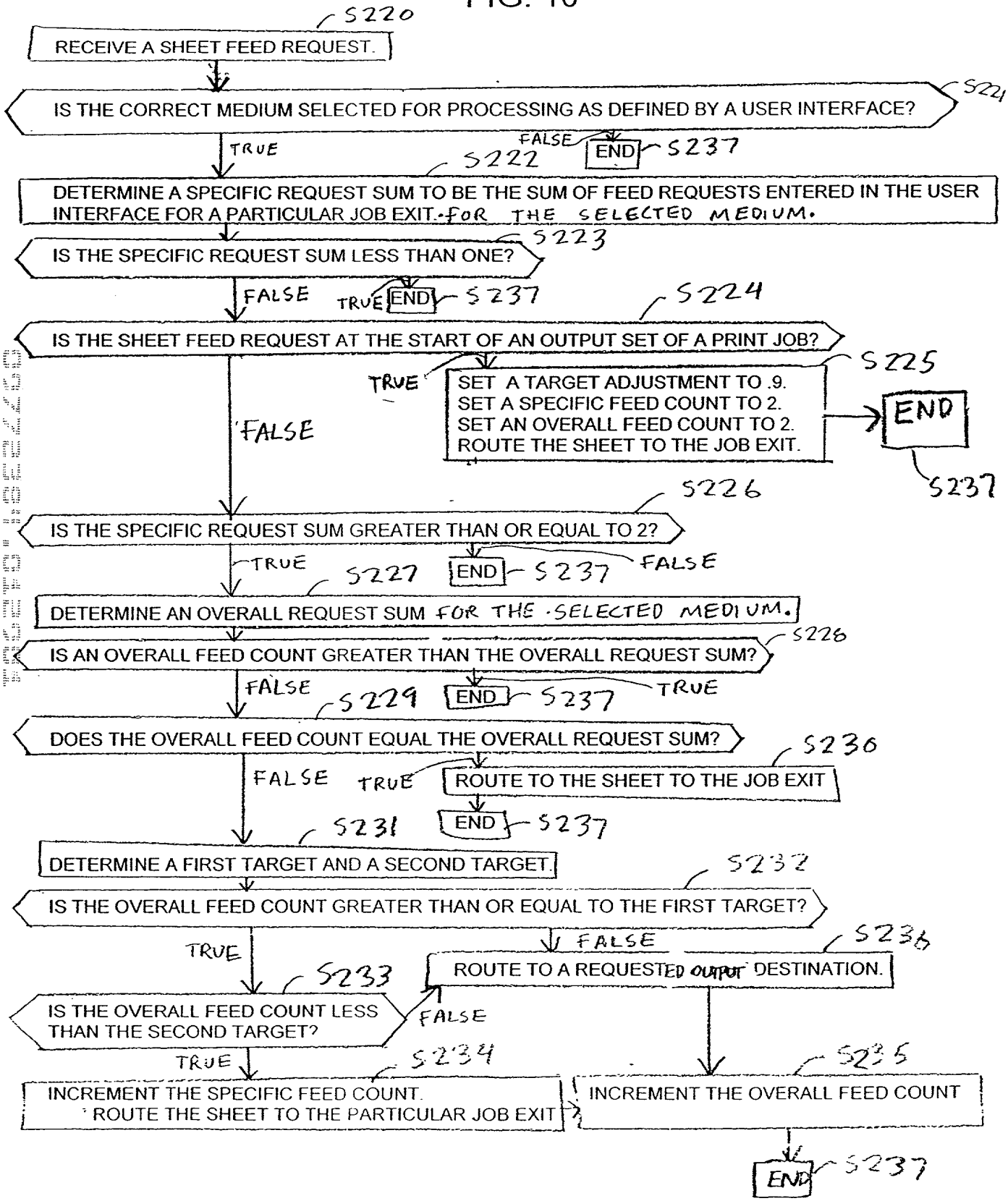

S220
RECEIVE A SHEET FEED REQUEST.
S221
IS THE CORRECT MEDIUM SELECTED FOR PROCESSING AS DEFINED BY A USER INTERFACE?
TRUE
FALSE
END
S237
S222
DETERMINE A SPECIFIC REQUEST SUM TO BE THE SUM OF FEED REQUESTS ENTERED IN THE USER INTERFACE FOR A PARTICULAR JOB EXIT FOR THE SELECTED MEDIUM.
S223
IS THE SPECIFIC REQUEST SUM LESS THAN ONE?
FALSE
TRUE
END
S237
S224
IS THE SHEET FEED REQUEST AT THE START OF AN OUTPUT SET OF A PRINT JOB?
TRUE
S225
SET A TARGET ADJUSTMENT TO .9.
SET A SPECIFIC FEED COUNT TO 2.
SET AN OVERALL FEED COUNT TO 2.
ROUTE THE SHEET TO THE JOB EXIT.
END
S237
FALSE
S226
IS THE SPECIFIC REQUEST SUM GREATER THAN OR EQUAL TO 2?
TRUE
FALSE
END
S237
S227
DETERMINE AN OVERALL REQUEST SUM FOR THE SELECTED MEDIUM.
S228
IS AN OVERALL FEED COUNT GREATER THAN THE OVERALL REQUEST SUM?
FALSE
TRUE
END
S237
S229
DOES THE OVERALL FEED COUNT EQUAL THE OVERALL REQUEST SUM?
FALSE
TRUE
S230
ROUTE TO THE SHEET TO THE JOB EXIT
END
S237
S231
DETERMINE A FIRST TARGET AND A SECOND TARGET.
S232
IS THE OVERALL FEED COUNT GREATER THAN OR EQUAL TO THE FIRST TARGET?
TRUE
FALSE
S236
ROUTE TO A REQUESTED OUTPUT DESTINATION.
S233
IS THE OVERALL FEED COUNT LESS THAN THE SECOND TARGET?
FALSE
TRUE
S234
INCREMENT THE SPECIFIC FEED COUNT.
ROUTE THE SHEET TO THE PARTICULAR JOB EXIT
S235
INCREMENT THE OVERALL FEED COUNT
END
S237

FIG. 11

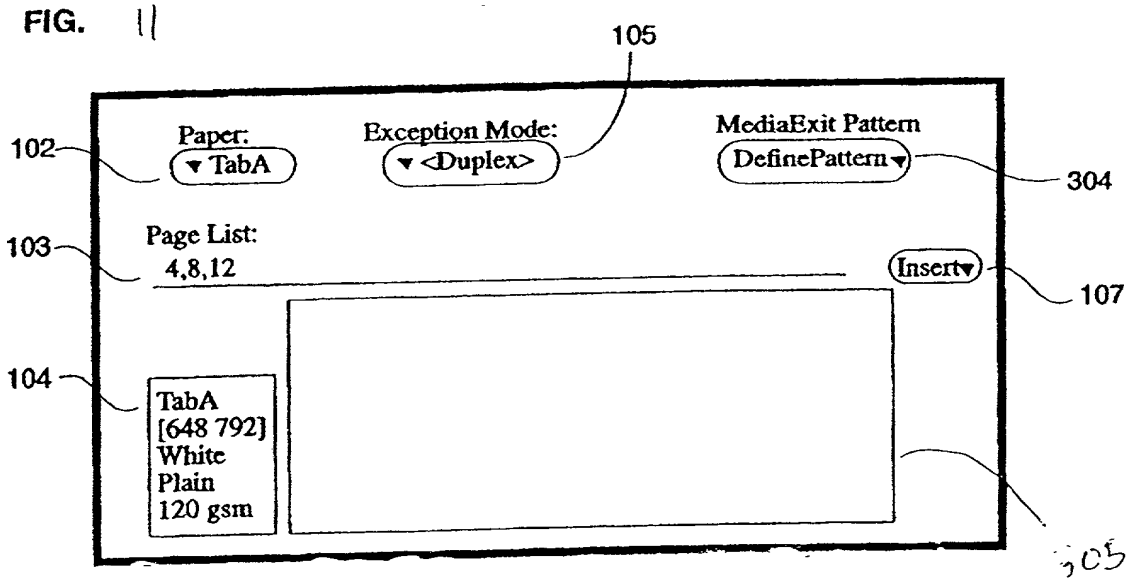

105
102
Paper:
TabA
Exception Mode:
<Duplex>
MediaExit Pattern
DefinePattern
304
103
Page List:
4,8,12
Insert
107
104
TabA
[648 792]
White
Plain
120 gsm
305

FIG. 13

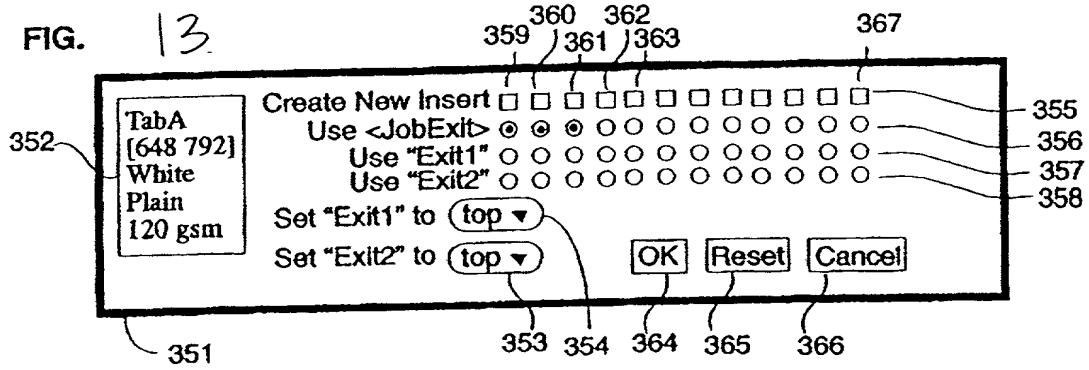

359
360
361
362
363
367
352
TabA
[648 792]
White
Plain
120 gsm
Create New Insert
Use <JobExit>
Use "Exit1"
Use "Exit2"
355
356
357
358
Set "Exit1" to
top
Set "Exit2" to
top
OK
Reset
Cancel
351
353
354
364
365
366

FIG. 14

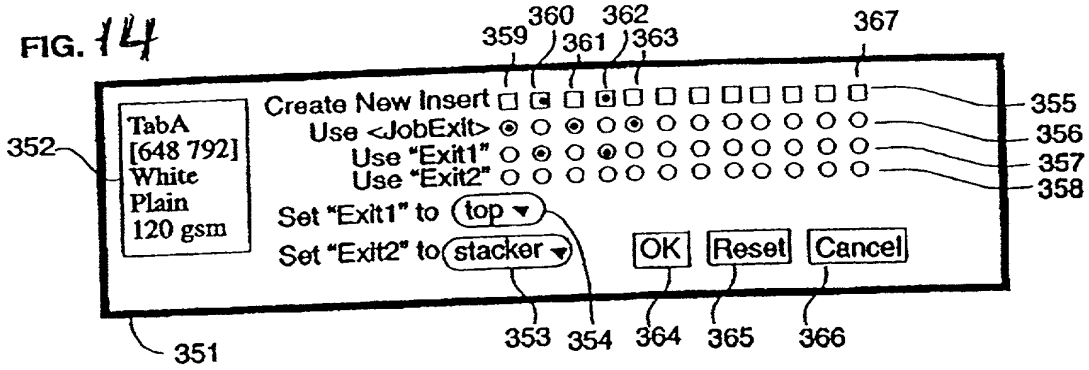
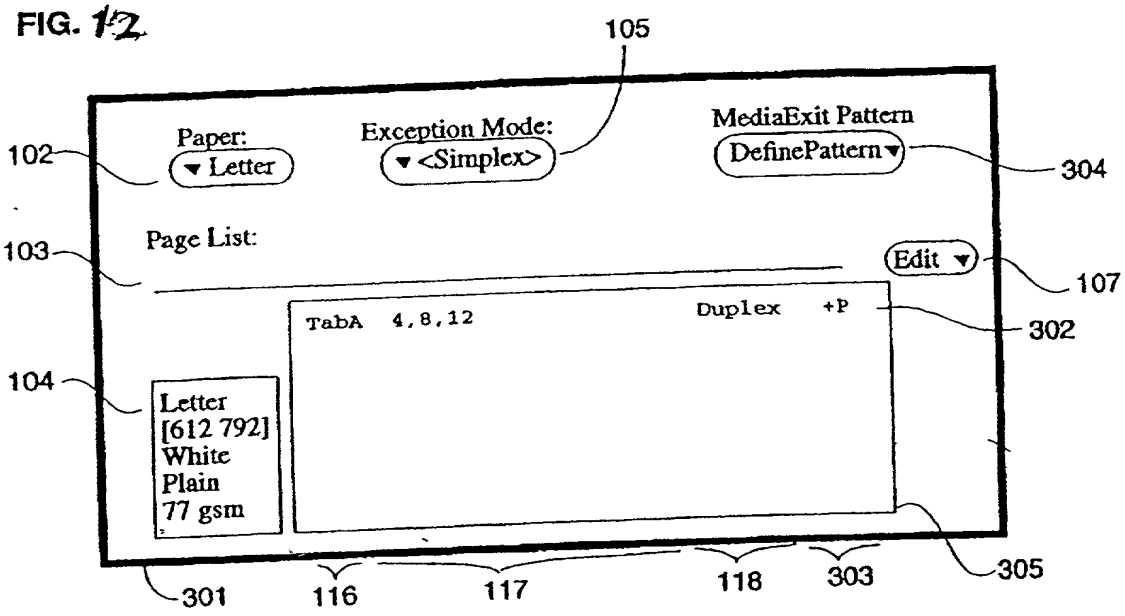

359
360
361
362
363
367
TabA
[648 792]
White
Plain
120 gsm
352
Create New Insert
Use <JobExit>
Use "Exit1"
Use "Exit2"
355
356
357
358
Set "Exit1" to
top
Set "Exit2" to
stacker
OK
Reset
Cancel
351
353
354
364
365
366

FIG. 12


105
Paper:
Letter
102
Exception Mode:
<Simplex>
MediaExit Pattern
DefinePattern
304
Page List:
103
Edit
107
TabA 4,8,12
Duplex +P
302
104
Letter
[612 792]
White
Plain
77 gsm
301
116
117
118
303
305